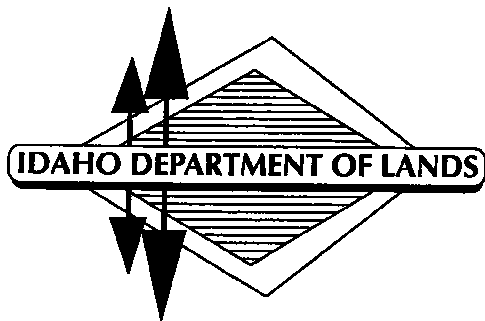
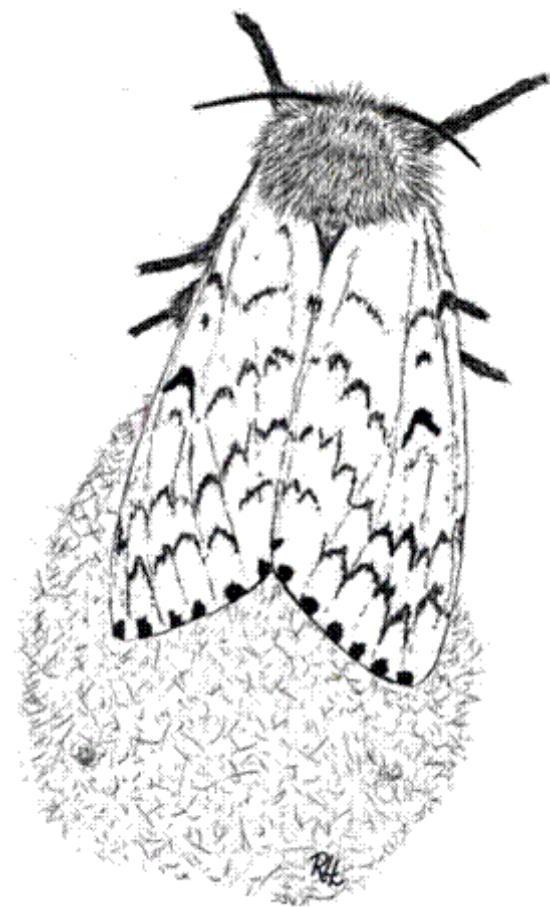


IDAHO

Gypsy Moth Report 2005



STATE OF IDAHO

GYPSY MOTH PROGRAM

SUMMARY REPORT

2005



by
Gretchen Lech

Special thanks to R. Ladd Livingston for his leadership with the Gypsy Moth Program in Idaho for the past 31 years!

**Idaho Department of Lands
3780 Industrial Avenue South
Coeur d'Alene, Idaho**

**Report No. IDL 05-1
December 2005**

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ABSTRACT

In 2005, one gypsy moth was captured in Idaho. This moth was determined by the OTIS Methods Development Lab (OTIS) to be of the European/ North American strain (EGM). The moth was caught in a detection trap in north Idaho near Kingston, along the Coeur d'Alene River, in Shoshone County (Figure 1). Delimitation trapping was conducted surrounding the 2004 capture site of one Asian Gypsy Moth (AGM) near Hauser, Idaho (Figure 2). Aerial spray treatments were conducted surrounding the 2004 AGM capture site to ensure that no gypsy moths remained in the area.

INTRODUCTION

Surveys to detect the introduction of the gypsy moth, *Lymantria dispar* L., have been conducted in Idaho each year since 1974 (Table 1). The first gypsy moth was discovered in 1986 at Sandpoint in Bonner County. The following year numerous additional moths were caught in Sandpoint and Coeur d'Alene. Ground treatments were conducted in 1988 and aggressive aerial spray eradication programs followed in 1989 and 1990 using a naturally occurring bacterium, *Bacillus thuringiensis* var. *kurstaki* (*B.t.k.*) as the pesticide (Tisdale and Livingston 1990, Livingston 1990). No gypsy moths have been caught in the treated areas since 1989. Gypsy moths have been caught in various areas throughout the state in the annual detection surveys every year from 1986 through 1995. No gypsy moths were caught in 1996 or 1997 (Mason and Livingston 1991, 1992, 1993, 1994, 1995, 1996, 1997). Seven gypsy moths were caught in 1998, 5 at one site. The other 2 were at widely separated locations of the state (Mason and Livingston 1998). An aerial spray eradication program was conducted in 1999 using *B.t.k.* No gypsy moths were caught in 1999 or 2000 (Mason and Livingston 1999 & 2000). Two gypsy moths were caught in 2001 (Casey and Livingston 2001), one each at widely separated locations of the state. No gypsy moths were caught in 2002 or 2003 (Casey and Livingston 2002 & 2003). One gypsy moth, determined to be of the Asian variety (AGM) was caught in 2004 near Hauser, Idaho (Lech and Livingston 2004).

Cooperating agencies, with accompanying responsibilities in the Idaho gypsy moth program, include the following:

- Idaho Department of Lands - Overall program coordination and trapping in northern Idaho, except in Forest Service campgrounds.
- Idaho Department of Agriculture - Trapping in southwestern Idaho and submission of data to the National Agricultural Pest Information System (NAPIS) data library.
- USDA, APHIS - Provides cost share funding, traps, baits, and technical expertise.
- USDA Forest Service, Region 4 - Trapping in southeastern Idaho.
- USDA Forest Service, Region 1 - Trapping in Forest Service campgrounds in northern Idaho.
- Idaho Department of Transportation – Provides monthly reports of vehicle registrations in Idaho from states that are generally infested with gypsy moths.

Table 1 - Gypsy moth trapping history in Idaho.

	NUMBER OF TRAPS SET				NUMBER OF MOTHS CAUGHT				# POS. TRAPS
YEAR	DET. ²	DEL. ³	MASS ⁴	TOTAL	DET. ²	DEL. ³	MASS ⁴	TOTAL	
1974 ¹									
1975	45			45					
1976	254			254					
1977	232			232					
1978	248			248					
1979 ¹									
1980	121			121					
1981	95			95					
1982	35			35					
1983 ¹									
1984 ¹									
1985 ¹									
1986	208			208	1			1	1
1987	420			420	35			35	9
1988	1558	1457		3015	8	414		422	210
1989	2248		7303	9551	17		51	68	54
1990	5640	358	3268	9266	4	2		6	3
1991 ⁵	4641	121		4762	4			4	4
1992	4823	130		4953	2	1		3	3
1993	4314	115		4429	2			2	1
1994	4239	96		4335	1	2		3	3
1995	4522	136		4658	1			1	1
1996	4290	117		4407					
1997	5085	20		5105					
1998	4904			4904	7			7	3
1999	4837	155	90	5082					
2000	5398	36		5434					
2001	5346			5346	2			2	2
2002	5024	35		5059					
2003	5582	35		5617					
2004	5875			5875	1 AGM			1	1 AGM
2005	4989	1441		6430	1			1	1

¹Trapping did occur in Idaho in these years, and no moths were found. However, records are not complete as to the exact number of traps placed.

²Detection.

³Delimitation.

⁴Mass trapping for control at approximately 9 traps/acre.

⁵Number of traps set in 1991 revised after receipt of final data.

Table 2 – Total number of gypsy moth traps placed, by agency, in Idaho in 2005.

AGENCY	DETECTION TRAPS	DELIMIT TRAPS	MASS TRAPS	TOTAL TRAPS
Idaho Dept. of Lands	2984	1441	0	4425
Idaho Dept. of Agriculture	1460	0	0	1460
USFS - Region 4	438	0	0	438
USFS - Region 1	107	0	0	107
TOTALS	4989	1441	0	6430

2005 EGM PROGRAM

EGM SURVEY:

Detection Trapping - In 2005, the cooperating agencies in the Idaho gypsy moth detection program placed 4989 detection traps throughout the state (Table 2). Trapping costs for the 2005 gypsy moth survey program in Idaho are shown in Table 3. Table 4 shows trap placements by county. Pheromone-baited traps were placed on a grid basis at a density of approximately four traps per square mile. Traps were placed throughout the state in cities, towns, surrounding urban areas, and rural communities in accordance with a pre-determined rotation schedule (see Appendix A). Cities and communities where 20 or more move-ins occur are trapped irrespective of their place in the schedule. A move-in is defined as an individual or family moving to Idaho from a state that is generally infested with gypsy moths. This information is derived from vehicle registration information supplied on a monthly basis by the Idaho Department of Transportation. Most infestations are initiated when an egg mass or other life stage of the gypsy moth arrives on an outdoor household article brought by someone moving into the area. Between May 2004 and April 2005, there were 10,857 move-ins to the state, a 21% increase over the previous year. Campgrounds, tourist attractions, and other high-risk locations were also trapped.

One male gypsy moth was caught in a detection trap in 2005. The trap was located in North Idaho, north of Kingston, in Shoshone County. This moth was sent for genetic analysis, and it was determined to be of the European/ North American strain. This moth could not be attributed to a specific move-in, however the area of the capture is used heavily for outdoor recreation and is visited by many recreational vehicles each season.

Delimitation Trapping – No delimitation trapping for European Gypsy Moths was conducted in 2005.

Mass Trapping – No mass trapping for EGM was conducted in Idaho in 2005.

2005 AGM PROGRAM

The relative risk of introduction of the Asian Gypsy Moth continues to increase. The capture of one male AGM in Idaho in 2004 is an indication that other routes besides ports need increased vigilance. Detection trapping will be adjusted, as necessary, based upon relative risk of AGM introductions.

AGM ERADICATION:

Aerial Spray- In 2005, the Idaho Department of Lands in cooperation with USDA- Animal and Plant Health Inspection Service (APHIS) implemented plans to ensure that no Asian Gypsy Moths remained in north Idaho. A 600 acre area surrounding the 2004 capture site of one male AGM near Hauser, Idaho was sprayed with Foray 48B (*Bacillus thuringiensis* var. *kurstaki*) insecticide. The insecticide was applied at 64 oz., neat (24 BIU) per acre. The spray project consisted of three aerial applications applied 7-10 days apart. Spray dates were: May 12, May 21, and May 28, 2005.

AGM SURVEY:

Delimitation Trapping – Delimitation traps were placed at a density of 25 traps/ mi² (first 2 mile radius) and 16 traps/ mi² (next 3 mile radius) surrounding the 2004 capture site of one male Asian Gypsy Moth near Hauser, Idaho in Kootenai County. The 1441 traps were placed prior to July 1, 2005, checked every 2 weeks during the summer, and removed the end of September. No gypsy moths were captured in the delimit area.

2006 PROGRAM

Delimitation Trapping – Delimitation trapping will be conducted for the second season in a 5 mile radius surrounding the 2004 capture site of one male AGM near Hauser, Idaho. The density will be 25 traps/ mi² for the first 2 mile radius, then 16 traps/ mi² for the next 3 mile radius.

In addition, delimitation traps will be placed surrounding the Kingston, Idaho capture site on one male EGM.

Eradication - No eradications are proposed for the 2006 season.

Table 3 - Costs of the 2005 gypsy moth survey and treatment program.

AGENCY	COST	
	European GM	Asian GM
Idaho Department of Lands	\$44,000	
Idaho Department of Agriculture	\$18,374	
US Forest Service- Region 1	\$4,480	
US Forest Service- Region 4	\$12,000	
USDA- APHIS Direct Costs for traps, baits and travel	\$1,972	\$848
USDA- APHIS Cooperative grants	\$22,506	\$187,282
Total	\$103,332	\$188,130
GRAND TOTAL	\$291,462	

Table 4 - 2005 Trap placements by counties.

COUNTY NAME	NO.	DETECTION 4/MILE ²	DELIMITATION 16 & 25/MILE ²	MASS 9/ACRE	TOTAL TRAPS
Ada	1	411			411
Adams	2	0			0
Bannock	3	102			102
Bear Lake	4	4			4
Benewah	5	117			117
Bingham	6	32			32
Blaine	7	101			101
Boise	8	4			4
Bonner	9	1114			1114
Bonneville	10	106			106
Boundary	11	134			134
Butte	12	0			0
Camas	13	0			0
Canyon	14	204			204
Caribou	15	10			10
Cassia	16	19			19
Clark	17	2			2
Clearwater	18	95			95
Custer	19	31			31
Elmore	20	63			63
Franklin	21	8			8
Fremont	22	19			19
Gem	23	45			45
Gooding	24	79			79
Idaho	25	131			131
Jefferson	26	6			6
Jerome	27	1			1
Kootenai	28	946	1441		2387
Latah	29	242			242
Lemhi	30	24			24
Lewis	31	7			7
Lincoln	32	16			16
Madison	33	19			19
Minidoka	34	26			26
Nez Perce	35	129			129
Oneida	36	6			6
Owyhee	37	22			22
Payette	38	51			51
Power	39	10			10
Shoshone	40	176			176
Teton	41	8			8
Twin Falls	42	218			218
Valley	43	206			206
Washington	44	45			45
TOTALS		4989	1441	0	6430

Figure 1: State of Idaho 2005 Gypsy Moth Capture Site

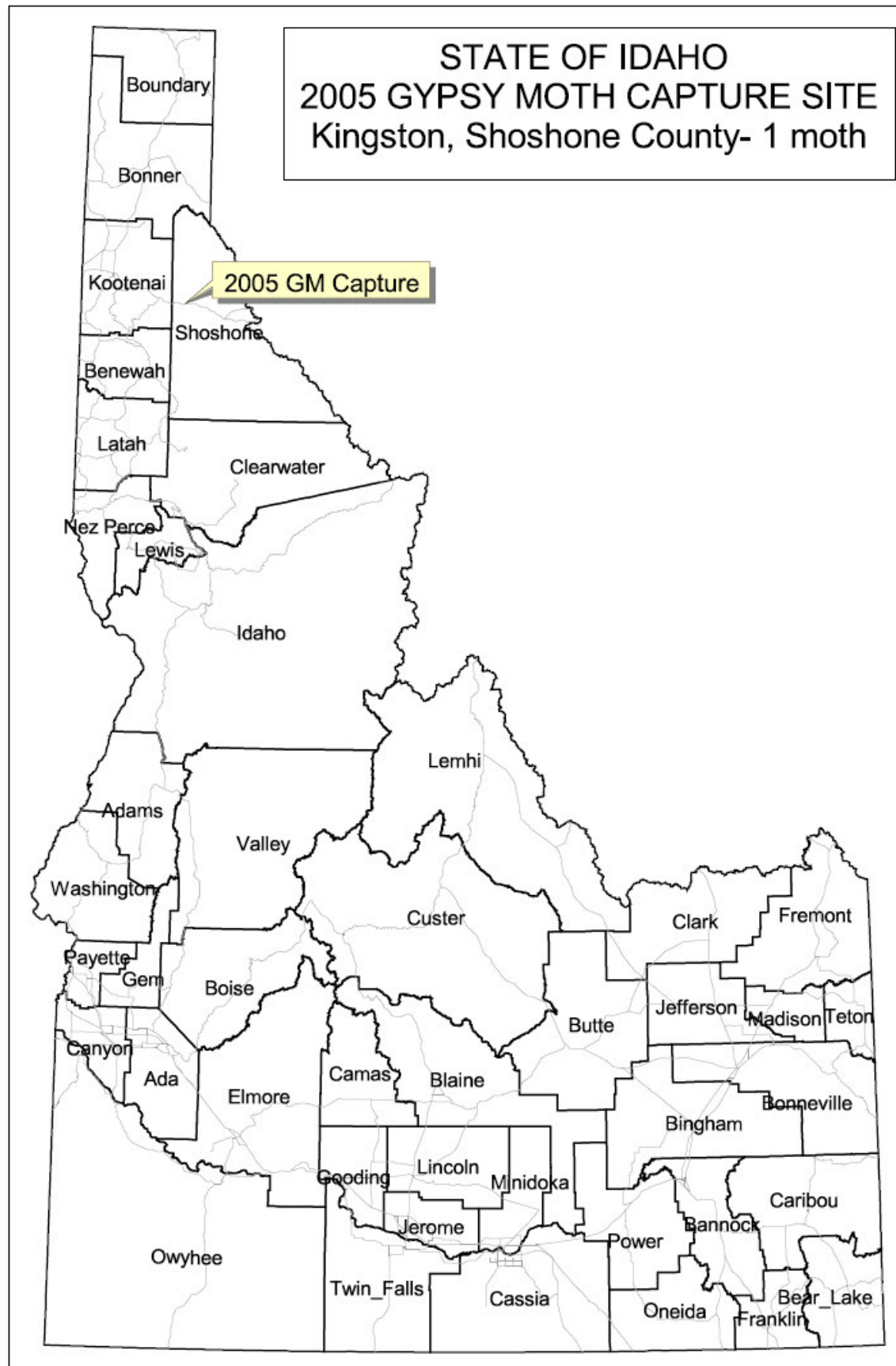


Figure 2: State of Idaho 2004 Gypsy Moth Capture Site



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GYPSY MOTH DECISION CRITERIA FOR AREAS TO TRAP

Original decision criteria as to what areas (zones) or cities to do detection trapping for gypsy moth in and on what schedule to trap were developed by the Gypsy Moth Technical Advisory Committee in 1989. Revisions have been made in succeeding years. The cities, towns, communities and rural areas of the state are categorized as follows.

Category 1. Detection Surveys conducted annually. This category includes larger cities and towns where numerous people or families moving into the area (move-ins) each year cause a substantial risk of gypsy moth infestation and dictate annual detection trapping. Consideration was also given to cities with colleges, industry, a military base, or tourism that would influence the risk of infestation or that otherwise made annual detection trapping advisable. There are currently 50 category 1 zones in Idaho.

Category 2. This category includes smaller cities and towns with populations greater than 2000 but which normally have fewer move-ins. Detection trapping will normally be done every second year. There are currently 14 category 2 zones in Idaho.

Category 3. This category includes communities and other areas with populations generally less than 2000. Detection trapping is normally done every third year. There are currently 188 category 3 zones in Idaho.

Category 4. This category includes small isolated towns or communities where limited or non-contiguous host interrupts the natural or unaided spread of the insect. These zones will be trapped only every third year, without regard to move-ins. There are currently 42 category 4 zones in Idaho.

Category 5. This category was developed for rural communities or areas where little or no risk of introduction exists due to lack of host or limited population. These areas are not trapped unless something occurs that would increase the risk of introduction in a particular year. There are currently 7 category 5 zones in Idaho that have been trapped.

A large percentage of the gypsy moth movement around the nation is brought about by families moving into a community and bringing gypsy moths in various life stages (particularly egg masses) with them, usually on outdoor household articles. For this reason, it was determined by the Technical Advisory Committee that if more than 20 move-ins occurred in a category 1, 2 or 3 zone in a one year period, that zone would be trapped that year, regardless of where it was in the normal schedule. This additional trapping will not interrupt or alter the regular schedule. A move-in is defined as an individual or family moving to Idaho from a state that is generally infested with gypsy moths. This information is provided to the program by the Idaho Department of Transportation.

The following pages comprise a list of Idaho cities and towns and the category into which they fall.

GYPSY MOTH TRAP ZONE CATEGORIES

<u>City</u>	<u>County</u>	<u>Category</u>	<u>City</u>	<u>County</u>	<u>Category</u>
American Falls	Power	1	Rexburg	Madison	1
Athol	Kootenai	1	Rigby	Jefferson	1
Bayview	Kootenai	1	Rock Creek	Twin Falls	1
Bellevue	Blaine	1	Rupert	Minidoka	1
Blackfoot	Bingham	1	Salmon	Lemhi	1
Blackrock	Bannock	1	Sandpoint	Bonner	1
Boise	Ada	1	Shelley	Bingham	1
Bonnors Ferry	Boundary	1	Soda Springs	Caribou	1
Burley	Cassia	1	St. Anthony	Freemont	1
Caldwell	Canyon	1	St. Maries	Benewah	1
Cascade	Valley	1	Sun Valley	Blaine	1
Coeur d'Alene	Kootenai	1	Twin Falls	Twin Falls	1
Driggs	Teton	1	Victor	Teton	1
Eagle	Ada	1	Weiser	Washington	1
Elk City	Idaho	1	Buhl	Twin Falls	2
Elkhorn Village	Blaine	1	Filer	Twin Falls	2
Emmett	Gem	1	Gooding	Gooding	2
Fruitland	Payette	1	Grangeville	Idaho	2
Garden Valley	Boise	1	Heyburn	Minidoka	2
Hailey	Blaine	1	Kellogg	Shoshone	2
Idaho Falls	Bonneville	1	Malad City	Oneida	2
Jerome	Jerome	1	Montpelier	Bear Lake	2
Ketchum	Blaine	1	Orofino	Clearwater	2
Kimberly	Twin Falls	1	Osburn	Shoshone	2
Kuna	Ada	1	Parma	Canyon	2
Lake Fork	Valley	1	Sagle	Bonner	2
Lewiston	Nez Perce	1	Silver City	Owyhee	2
McCall	Valley	1	Wolf Lodge	Kootenai	2
Meridian	Ada	1	Aberdeen	Bingham	3
Middleton	Canyon	1	Ahsahka	Clearwater	3
Moscow	Latah	1	Ashton	Freemont	3
Mountain Home	Elmore	1	Atlanta	Elmore	3
Mtn. Home AFB	Elmore	1	Bancroft	Caribou	3
Nampa	Canyon	1	Banida	Franklin	3
Payette	Payette	1	Banks	Boise	3
Pocatello	Bannock	1	Basalt	Bingham	3
Post Falls	Kootenai	1	Benewah	Benewah	3
Preston	Franklin	1	Bliss	Gooding	3
Priest River	Bonner	1	Bloomington	Bear Lake	3
Rathdrum	Kootenai	1	Bovill	Latah	3

<u>City</u>	<u>County</u>	<u>Category</u>	<u>City</u>	<u>County</u>	<u>Category</u>
Bowmont	Canyon	3	Fish Haven	Bear Lake	3
Bruneau	Owyhee	3	Fort Hall	Bingham	3
Calder	Shoshone	3	Four Corners	Bonner	3
Cambridge	Washington	3	Franklin	Franklin	3
Cameron	Nez Perce	3	Fraser	Clearwater	3
Cardiff	Clearwater	3	Fruitvale	Adams	3
Carey	Blaine	3	Gannett	Blaine	3
Careywood	Bonner	3	Gardena	Boise	3
Castleford	Twin Falls	3	Genesee	Latah	3
Cavendish	Clearwater	3	Georgetown	Bear Lake	3
Centerville	Boise	3	Gleason Meadows	Bonner	3
Challis	Custer	3	Glenns Ferry	Elmore	3
Chatcolet	Benewah	3	Glenwood	Idaho	3
Clark Fork	Bonner	3	Gold Hill	Latah	3
Clarkia	Shoshone	3	Grace	Caribou	3
Clayton	Custer	3	Grandview	Owyhee	3
Clearwater	Idaho	3	Grangemont	Clearwater	3
Clifton	Franklin	3	Greenleaf	Canyon	3
Coolin	Bonner	3	Hagerman	Gooding	3
Cottonwood	Idaho	3	Hammett	Elmore	3
Council	Adams	3	Hansen	Twin Falls	3
Craigmont	Lewis	3	Harris Ridge	Idaho	3
Crouch	Boise	3	Harrisburg	Idaho	3
Culdesac	Nez Perce	3	Harrison	Kootenai	3
Dayton	Franklin	3	Hazelton	Jerome	3
Deary	Latah	3	Headquarters	Clearwater	3
Deep Creek	Latah	3	Helmer	Latah	3
Desmet	Benewah	3	Hill City	Camas	3
Dietrich	Elmore	3	Homedale	Owyhee	3
Donnelly	Valley	3	Hope	Bonner	3
Downey	Bannock	3	Horseshoe Bend	Boise	3
Eastport	Boundary	3	Idaho City	Boise	3
Eden	Jerome	3	Indian Valley	Adams	3
Elk River	Clearwater	3	Inkom	Bannock	3
Elmira	Bonner	3	Iona	Bonneville	3
Emida	Benewah	3	Island Park	Freemont	3
Fairfield	Camas	3	Jaype	Clearwater	3
Featherville	Elmore	3	Juliaetta	Latah	3
Ferdinand	Idaho	3	Kamiah	Lewis	3
Fernwood	Benewah	3	Kendrick	Latah	3
Firth	Bingham	3	King Hill	Elmore	3

<u>City</u>	<u>County</u>	<u>Category</u>	<u>City</u>	<u>County</u>	<u>Category</u>
Kooskia	Idaho	3	Picabo	Blaine	3
Laclede	Bonner	3	Pierce	Clearwater	3
Lamb Creek	Bonner	3	Pine	Elmore	3
Lapwai	Nez Perce	3	Pioneerville	Boise	3
Larson	Clearwater	3	Placerville	Boise	3
Lava Hot Springs	Bannock	3	Pleasantview	Oneida	3
Leland	Nez Perce	3	Plummer	Benewah	3
Lenore	Nez Perce	3	Pollock	Idaho	3
Letha	Gem	3	Porthill	Boundary	3
Lewisville	Jefferson	3	Potlatch	Latah	3
Lowell	Idaho	3	Reubens	Lewis	3
Lowman	Boise	3	Reynolds	Owyhee	3
Lucile	Idaho	3	Richfield	Lincoln	3
Mackay	Custer	3	Riddle	Owyhee	3
Marsing	Owyhee	3	Riggins	Idaho	3
Massacre Rocks	Power	3	Ririe	Bonneville	3
McAbee Falls	Bonner	3	Roberts	Jefferson	3
McCammon	Bannock	3	Rogerson	Twin Falls	3
Melba	Canyon	3	Rose Lake	Kootenai	3
Menan	Jefferson	3	Roswell	Canyon	3
Mesa	Adams	3	Samaria	Oneida	3
Midvale	Washington	3	Shoshone	Lincoln	3
Moyie Springs	Boundary	3	Slickpoo	Nez Perce	3
Murphy	Owyhee	3	Smiths Ferry	Valley	3
Murray	Shoshone	3	Southwick	Nez Perce	3
Murtaugh	Twin Falls	3	Spalding	Nez Perce	3
Naples	Boundary	3	Spirit Lake	Kootenai	3
New Meadows	Adams	3	St. Charles	Bear Lake	3
New Plymouth	Payette	3	Stanley	Custer	3
Nordman	Bonner	3	Star	Ada	3
North Fork	Lemhi	3	Starkey	Adams	3
Notus	Canyon	3	Stites	Idaho	3
Oakley	Cassia	3	Sugar City	Madison	3
Ola	Gem	3	Sweet	Gem	3
Oreana	Owyhee	3	Syringa	Idaho	3
Oxford	Franklin	3	Tahoe Ridge	Idaho	3
Pack River	Bonner	3	Tamarack	Adams	3
Paris	Bear Lake	3	Teton	Madison	3
Paul	Minidoka	3	Tetonia	Teton	3
Pearl	Gem	3	Tuttle	Gooding	3
Peck	Nez Perce	3	Ucon	Bonneville	3

<u>City</u>	<u>County</u>	<u>Category</u>	<u>City</u>	<u>County</u>	<u>Category</u>
Wallace	Shoshone	3	Malta	Cassia	4
Warm Lake	Valley	3	May	Lemhi	4
Warren	Idaho	3	Minidoka	Minidoka	4
Weippe	Clearwater	3	Mink Creek	Franklin	4
Wendell	Gooding	3	Montview	Jefferson	4
Weston	Franklin	3	Moore	Butte	4
White Bird	Idaho	3	Moreland	Bingham	4
Wilder	Canyon	3	Mud Lake	Jefferson	4
Winchester	Lewis	3	Newdale	Fremont	4
Worley	Kootenai	3	Ovid	Bear Lake	4
Wrenco	Bonner	3	Parker	Fremont	4
Yellow Pine	Valley	3	Pingree	Bingham	4
Acequia	Minidoka	4	Riverside	Bingham	4
Albion	Cassia	4	Robin	Bannock	4
Almo	Cassia	4	Rockford	Bingham	4
Arco	Butte	4	Rockland	Power	4
Arimo	Bannock	4	Springfield	Bingham	4
Bennington	Bear Lake	4	Stibnite	Valley	4
Bern	Bear Lake	4	Stone	Oneida	4
Chester	Freemont	4	Swan Valley	Bonneville	4
China Cap	Caribou	4	Tendoy	Lemhi	4
Declo	Cassia	4	Terreton	Jefferson	4
Dingle	Bear Lake	4	Thornton	Madison	4
Dubois	Clark	4	Cobalt	Lemhi	5
Givens Hot Springs	Owyhee	4	Corral	Camas	5
Hamer	Jefferson	4	Kimama	Lincoln	5
Heise	Madison	4	Lolo	Idaho	5
Holbrook	Oneida	4	Powell	Idaho	5
Howe	Butte	4	Sunbeam	Custer	5
Huston	Canyon	4	Triangle	Owyhee	5
Leadore	Lemhi	4			